

## UNITED STATES DEPARTMENT OF COMMERCE **Patent and Trademark Office**

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. TANG 065020023 08/885,597 06/30/97 **EXAMINER** WM02/1116 JOSEPH, T FINNEGAN HENDERSON FARABOW GARRETT '& DUNNER LLP **ART UNIT** PAPER NUMBER 1300 I STREET N W 2173 WASHINGTON DC 20005-3315 the state of the state of the state of

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Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

Application No. 08/885,597 Applicant(s)

John Tang

Office Action Summary

Examiner

**Thomas Joseph** 

Group Art Unit 2773



🗵 Responsive to communication(s) filed on Oct 19, 2000	
☐ This action is <b>FINAL</b> .	
☐ Since this application is in condition for allowance except for formal matters, prosecution as to in accordance with the practice under Ex parte Quayle35 C.D. 11; 453 O.G. 213.	the merits is closed
A shortened statutory period for response to this action is set to expire3month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).	
Disposition of Claim	
X Claim(s) <u>1-32</u> is/ar	i i
Of the above, claim(s) is/are with	ndrawn from consideration
Claim(s)	_ is/are allowed.
X Claim(s) <u>1-32</u>	_ is/are rejected.
Claim(s)	_ is/are objected to.
☐ Claims are subject to restriction	on or election requirement.
Application Papers  See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.  The drawing(s) filed on	
Attachment(s)  Notice of References Cited, PTO-892  Information Disclosure Statement(s), PTO-1449, Paper No(s).  Interview Summary, PTO-413  Notice of Draftsperson's Patent Drawing Review, PTO-948  Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION ON THE FOLLOWING PAGES	

Office Action Summary

#### **DETAILED ACTION**

1. Applicant's arguments filed on 10-19-2000 have been fully considered but they are not persuasive.

#### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 13, 29, 31, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baecker (pat. # 5,479,602) in view of Johnson (pat. 5,880,729).

Baecker discloses a computer readable medium for the storing of data and instructions (col. 4, lines 25 - 45).

Claims 1, 13, and 32 are rejected. Baecker discloses an animation sequences where the animation appears to be repeatedly scanning over a given number of document sections (col. 8, lines 49 - 57). Baecker discloses modifying the appearance of the animation icon when the corresponding file or folder representing the icon changes (col. 8, lines 58 - 67). Baecker discloses a process which generates new animation frames whenever the file or folder representing the icon changes (col. 8, lines 58 - 67).

Baecker fails to teach transitional visual effects, or animation for allowing users to view the transition of an object between two different static states of elements within the GUI.

Johnson teaches using transitional visual effects, or animation for allowing users to view the

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transition of an object between two different static states of elements within the GUI (col. 2, lines 40 - 50). Johnson teaches the display of an animated icon on a screen when another element associated with the computer system changes (col. 2, lines 40 - 50) can be interpreted as detecting an event reflecting a change in the state of the container. This can be interpreted as cyclically display a series of frames as an animated sequence which reflect a change in the state of the container. Any process resulting from the activation of an icon can be interpreted as detecting an event reflecting a change in the state of the container, wherein the container is a separate page related to user discussion. Icons used for linking to a URL is a container containing a web page related to user discussion. It is obvious to one with ordinary skill in the art to determine based on the detected event whether an animated sequence does not reflect the state of the container. Doing so allows the user to detect whether a change has occurred to a computer file while the user passively observes without entering additional inputs. It is obvious to one with ordinary skill in the art to update the cyclical display based on the determination. Doing so informs the user of changes while a the user passively observe the said changes.

Claim 29 is rejected. Johnson discloses the use of animation which represent the characteristics of an object which can also be a container or be related to a container while the object is undergoing a change of state (col. 4, lines 20 - 33). Johnson teaches use of icons and other graphical symbols and representations (fig. 1). It is obvious to one with ordinary skill in the art for the process of claim 1, wherein the frames include characteristics that are symbolic of objects of the container. Doing so provides both animated and static icons which are more easily recognizable by the user.

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Claim 31 is rejected. Baecker discloses a computer readable medium in rejected claim 1.

The rationale of claim 29 is incorporated into claim 30.

4. Claims 2 - 4, 10, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baecker (pat. # 5,479,602) and Johnson (pat. 5,880,729) as applied to claims 1 and 13 above, and further in view of Gudmundson (pat. 5,680,619). Baecker discloses a computer readable medium for the storing of data and instructions (col. 4, lines 25 - 45).

Claim 2 is rejected. Baecker in view of Johnson fail to teach individual objects undergoing a change in state. Gudmundson discloses individual objects undergoing a change in state represented by fish in an aquarium expressing behavior (fig. 33; col. 64, lines 49 - 67). Gudmundson discloses objects represented by the use of animated fish icons which make behavior responses such as schooling like fish in a body of water when they come in near proximity of one another on the computer display (fig. 33; col. 64, lines 49 - 67; col 65, lines 1- 15). It is obvious to one with ordinary skill in the art to incorporate the methods of displaying graphical items as fish or other icons into Gudmundson and Baecker because doing so can reduce the need for the user to change position to view a screen or enter input when observing the progress of a software object. It is obvious to one with ordinary skill in the art to incorporate Gudmundson into the process of claim 1 taught by Baecker, wherein the cyclical display provides an intuitive representation of a degree of the change in the state of the container. Doing so allows the user to view and track changes while the user passively observe the display without the entering of additional inputs.

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Claim 3 is rejected. Baecker in view of Johnson fail to teach individual objects undergoing a change in state. Gudmundson discloses representing similar objects by similar type of fish which school while representing less similar object by different types of fish which compete with one another (fig. 33; col. 64, lines 49 - 67). Gudmundson discloses a given number of fish representing the given number of objects (fig. 33; col. 64, lines 49 - 67). It is obvious to one with ordinary skill in the art to incorporate the methods of displaying graphical items as fish or other icons into Gallagher and Baecker because doing so can reduce the need for the user to change position to view a screen or enter input when observing the progress of a software object. It is obvious to one with ordinary skill in the art to incorporate Gudmundson into the process of claim 1 taught by Baecker, wherein the cyclical display reflects the numbers and types of objects. Doing so updates the user of types and number of active objects without requiring additional input.

Claim 4 is rejected. Baecker in view of Johnson fail to teach a cyclical display which embeds audio information in the generated frames. Gudmundson discloses a stay in tank behavior command which produces a bounce sound when a fish object collides with the given border (col. 65, lines 40 - 62). It is obvious to one with ordinary skill in the art to incorporate the methods of displaying graphical items as fish or other icons into Baecker in view of Johnson because doing so can reduce the need for the user to change position to view a screen or enter input when observing the progress of a software object. It is obvious to one with ordinary skill in the art to incorporate Gudmundson into the process of claim 1 taught by Baecker, wherein the cyclical display embeds audio information in the generated frames. Doing so signals information

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regarding object state without requiring the user to neither take time to view the computer screen nor enter input into an input device.

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Claim 10 is rejected. The rationale for claim 10 is disclosed in claim 4.

Claim 14 is rejected. Baecker in view of Johnson in view of Gudmundson disclose the rationale for claim 14 in rejected claim 2.

Claim 16 is rejected. Gudmundson discloses embedding sound into animated frames in rejected claim 4. Baecker and Johnson disclose the cyclical display of animated frames in rejected claim 1. Baecker in view of Johnson in view of Gudmundson teach using a cyclical sound to be embedded into a cyclical animation in rejected claim 4. It is obvious to one with ordinary skill in the art for the computer readable medium of claim 13 to further include instructions for embedding audio information in the cyclical display. Doing so informs the user that the computer is in a normal processing state without requiring that the user change positions to view some type of computer device.

5. Claims 5, 6, 9, 12, 11, 15, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baecker (pat. # 5,479,602) in view of Johnson (pat. 5,880,729) in view of Gudmundson (pat. 5,680,619) as applied to claims 1 and 2 above, and further in view of Gallagher. Baecker discloses a computer readable medium for the storing of computer readable data and instructions (col. 4, lines 25 - 45).

Claims 5 and 17 are rejected. Baecker in view of Johnson in view of Gudmundson fail to teach using the rate of change the rate that new frame are displayed during animation when determining the quality of animation required for a given procedure. Gallagher discloses using the

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rate of change the rate that new frame are displayed during animation when determining the quality of animation required for a given procedure (p. 220). Gallagher discloses color table animation where a palette is used for displaying color in an animated image (p. 222). Gallagher discloses color cycling for mapping a sequence of moving events onto a range of color indices (p. 223). Gallagher discloses color cycling being used for particle traces, especially fluid flow through a container (p. 223). Gallagher discloses using a rate of change at a speed where colors appear to be moving (p. 223). Gallagher discloses uses color cycling at a speed where animation appears on the screen thus giving the user an illusion of motion on the screen (p. 223). Gudmundson discloses providing an object and view menu where color, sound, motion, and size data corresponding to an object represented by a fish can be modified (col. 21, lines 50 - 67). It is obvious to one with ordinary skill in the art to incorporate the methods of displaying graphical items as fish or other icons into Gallagher and Baecker because doing so can reduce the need for the user to change position to view a screen or enter input when observing the progress of a software object. It is obvious to one with ordinary skill in the art to incorporate into the process of claim 2, wherein the cyclical display uses one of color variations, tempo, motion, and change in size to represent the degree of the change in the state of the container. Doing so signals information regarding object state while reducing the need for the user to change physical position for the entering of input and the viewing of an output display.

Claims 6 and 18 are rejected. Gudmundson discloses displaying representing the number of objects in the form of some type of animal in rejected claim 3. Rejected claim 5 incorporates the rationale for using color variations, tempo, and changing motion and size. It is obvious to one

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with ordinary skill in the art to incorporate into the process of claim 3, wherein the cyclical display uses color variations, tempo, motion, and change in size to reflect the number or type of the objects in the container. Doing so signals information regarding object state while reducing the need for the user to change physical position for the entering of input and the viewing of an output display.

Claim 9 is rejected. The rationale for claim 9 is disclosed in claim 6.

Claim 11 is rejected. The rationale for claim 11 is disclosed in claim 5.

Claim 12 is rejected. The rationale for claim 12 is disclosed in claim 6.

Claim 15 is rejected. Baecker discloses a computer medium with instructions for executing a program in rejected claim 1. The rationale for the rest of claim 15 is disclosed in claim 6.

6. Claims 7, 19 - 21, 25, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson (pat. 5,880,729).

Claim 7 is rejected. Johnson discloses a RAM, ROM, and processor connected by a bus (fig. 4b). Johnson discloses using software in memory to display the status by displaying an animation sequence corresponding to the find button; the find button can be considered a type of software container (fig. 5; col. 3, lines 65 - 68; col. 4, lines 1 - 20). Johnson discloses displaying state changes which correspond with state changes (fig. 6; col. 4, lines 34 - 50). Johnson discloses detecting changing of software state through the use of active animation (fig. 6; col. 4, lines 34 - 50). Johnson discloses cyclically displaying an animated sequence in the form of a rotating button (fig. 5; col. 3, lines 65 - 68; col. 4, lines 1 - 20). Johnson discloses storing and

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executing programs such as a GUI in memory (fig. 4; col. 3, lines 44 - 64). Johnson teaches the use of a software program which can be interpreted as requiring a processor configured to execute programs in memories (abstract). It is obvious to one with ordinary skill in the art to display on which a series of frames is cyclically displayed in an animated sequence. Doing so makes the passive user or other observer aware when the software is in a normal processing state. It is obvious to one with ordinary skill in the art to provide a memory which includes a software container and an animated indicator program including computer code for monitoring the software container to detect an event reflecting a change in a state of the container, for determining based on the detected event whether an animated sequence does not reflect the state of the container, and for generating a series of frames to reflect a state of the container based on the determination. Doing so enhances the ability of the computer programmer to track the state of software programs undergoing execution.

Claims 19 and 25 are rejected. Johnson discloses detecting activity of a menu item (col. 4, lines 20 - 50). Johnson teaches the user of menu which can also be interpreted as a type of software container (col. 4, lines 20 - 50). Johnson discloses updating an animated sequence as to reflect the activity of the button (col. 4, lines 1 - 50). It is obvious to one with ordinary skill in the art to detect activity of the closed container and to update the animated sequence so as to reflect the activity of the closed container. Doing so provides a method for updating the user with information regarding the processes being executed by the computer.

Claim 20 is rejected. Johnson discloses displaying an animated sequence (col. 4, lines 33 - 50).

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Claim 21 is rejected. Johnson demonstrates placing of a cursor such as a mouse pointer on an closed menu which can be interpreted as a type of window (fig. 1). Johnson demonstrates placing a mouse cursor on an icon representing closed windows and other objects, the icon is replaced with corresponding information representing the software represented by the container (fig. 1). It is obvious to one with ordinary skill in the art to interrupt the display of the animated sequence when the corresponding software container is opened because stopping animation and removing of the corresponding icon is widely accepted method for reducing confusion for the user when an application, represented by an icon, is activated for user access.

Claim 30 is rejected. Johnson discloses a computer system in rejected claim 7. The rationale of claim 29 in incorporated into claim 30.

7. Claim 22-24 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over STN Express ©1996 in view of Legarde (pat. # 5,721,908) in view of Johnson (pat. 5,880,729) in view of Gish (pat. # 5,848,246).

Claim 22 is rejected. STN Express discloses the coupling of a PC with a mainframe containing a database. STN Express discloses an emulator for the PC which emulates actions of the mainframe allowing the user on the PC to view actions of the mainframe. STN Express discloses a status bar located on the bottom of the PC screen with the word online or offline depending whether the emulator is connected to the mainframe. STN Express discloses displaying the word "online" in green when the mainframe awaits input from the PC user while displaying "online" in red when the user is instructed to await for output from the mainframe after input is entered. STN Express discloses displaying the word "online" in red to signal to the user

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when the request by the user is being processed. STN Express discloses the display of an emulation of a PC screen of data stored on a mainframe which can be interpreted as output retrieved from a database server to a user computer is a reflection of actions taking place on the said database server. STN Express teaches the use of an emulator which can be interpreted as a method where a first computer has acted upon a software container in a second computer.

STN Express fail to teach coupling a database on a different server computer with user computer equipped with a browser where the user requests information from the database server. Legarde discloses coupling a database on a different server computer with user computer equipped with a browser where the user requests information from the database server (col. 23, lines 15 - 30). Legarde teaches accessing data through a network (vol. 23, lines 37 - 45). Laggard teaches networking on the Internet (col. 23, lines 15 - 45). It is obvious to one with ordinary skill in the art to detect if a second computer system has acted upon the container. Doing so allows the user to access a user-friendly, graphical based program on a server computer from another computer.

Laggard fail to teach output retrieved from a database server to a user computer is a reflection of actions taking place on the said database server. Gish (pat. # 5,848,246) teaches providing animated icons on an Internet server wherein the user of a second computer system accessing the server can execute software stored on the server from the second computer system (col. 15; lines 34 - 42). It would have been obvious to one with ordinary skill in the art at the time of the invention to update an animated sequence to be displayed on the first computer system so as to reflect the actions of the second computer system. Doing so is a widely accepted

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method for allowing the user accessing a first computer from a second computer system for viewing a copy of the output from the first computer from the second computer.

Claim 23 is rejected. Claim 22 discloses networking a first and second computer together on the Internet. It is obvious to one with ordinary skill in the art to incorporate into the process according to claim 22, wherein the first computer system and the second computer system are connected to the Internet. Doing so is a widely accepted method which uses universal protocols for allowing a second computer to run software on a first computer.

Claim 24 is rejected. Johnson discloses using a rotating animated icon to represent the changing software states associated with the icons while using static icon representations to represent specific static states (col. 5, lines 20 - 63). It is obvious to one with ordinary skill in the art for the process according to claim 22, further comprising displaying the animated sequence as disclosed by Johnson on the first computer system which is assigned the task of being a server computer. Doing so provides a method for the computer user to observe animated sequences and other graphical processes used for the tracking of database retrieval and other program runs being executed by the server computer.

Claim 26 is rejected. The rationale disclosed in claim 22 is incorporated herein.

8. Claims 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baecker (pat. # 5,479,602) in view of SON Express ©1996 in view of Laggard (pat. # 5,721,908) in view of Johnson (pat. 5,880,729).

Claim 27 is rejected. Baecker teaches the use of a software program which requires a processor configured to execute programs in memory (abstract). Baecker discloses a computer

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system which includes a memory, processor, and data storage device (fig. 1). Baecker discloses providing for the storing of instructions or code on a magnetic disk connected to memory by means of a bus (col. 4, lines 25 - 55). Baecker discloses a display device (fig. 1; col. 1, lines 43 - 55). Baecker teaches the use of a computer program which requires instructions to be read into memory before a processor can execute the instructions (abstract).

Baecker fails to teach a method for allowing one computer to reflect the actions of another. SON Express discloses a method for allowing one computer to reflect the actions of another computer in rejected claim 22. SON Express discloses providing a window, object, or software container for running a mainframe emulation while other programs are also executing on the same computer system. Baecker and Johnson disclose displaying animation in rejected claim 1. It is obvious to one with ordinary skill in the art to provide a display for the display the animated sequence. Doing so is the widely accepted method in the art for the display of moving images including animation. It is obvious to one with ordinary skill in the art to provide a memory containing code for performing a process for reflecting activity of a software container that is closed, including code for detecting activity of the closed container and code for updating an animated sequence so as to reflect activity of the closed container. Doing so allows the user to run multiple programs on the local computer workstation and to view the running of the multiple programs on the computer workstation's display device.

Claim 28 is rejected. The rationale of claim 28 is disclosed in rejected claim 27. It is obvious to one with ordinary skill in the art to provide a memory in a first computer containing code for performing a process for reflecting activity of a network-based software container

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associated with the first computer system, including code for detecting if a second computer system has acted upon the container, and code for updating an animated sequence to be displayed on the first computer system so as to reflect the actions of the second computer system. Doing so allows a user to access a larger and more powerful computer system using only a portion of the resources provided by a different, smaller, and more accessible computer system.

9. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson (pat. 5,880,729) as applied to claim 7 above, and further in view of Gallagher.

Claim 8 is rejected. Johnson discloses displaying a transition using animation to show the change of the state of a software container or button from a first state to a second state (col. 6, lines 60 - 70; col, 7, lines 1 - 25).

Johnson fails to teach varying degrees or time rates for observing animation sequences.

Gallagher discloses varying degrees or time rates for observing animation sequences (p. 207, para.

2). It is obvious to one with ordinary skill in the art for the computer system of claim 7, wherein the cyclical display provides an intuitive representation of a degree of the change in the state of the container. Doing so provides the user with a user-friendly method for observing changes corresponding to software programs being executed on a computer.

### Response to Arguments

10. Applicant's arguments filed 10-12-2000 have been considered; however, they have been determined not to be persuasive. The Applicant filed a Continuing Prosecuting Application and requested reconsideration for claims 1-31 while adding claim 32.

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The Applicant responds to the rejection of claims 1, 13, 29, and 31. The Applicant asserts that the animated sequence by Baecker in view of Johnson fails to teach detecting an event reflecting a change in the state of the container; determining based on the detected event whether an animated sequence does not reflect the state of the container; and updating the cyclical display based on the determination. The Examiner reflects that Johnson depicts an animation which can be used as a cyclical display for depicting the state of a software container (fig. 5).

The Applicant responds to the rejection of claims 7, 19-21, 25, and 30. The allege that Johnson fails to teach displaying state changes which correspond with sate changes, detecting changing of a software state through the user of active animation, and cyclically displaying an animated sequence in the form of a rotating button. The Applicant asserts that the find button taught by Johnson is nothing more than a trigger for activating a function to be performed. The Examiner responds by stating that the trigger for activating a function is a trigger for detecting an event.

The Applicant responds to the rejection of claims 22, 26 and 28. The Applicant asserts claims 22, 26 and 28 are patentable but fails to provide sufficient statements supporting the withdraw of the rejection of claims 22, 26 and 28. The Applicant does assert that art of record fail to teach or suggest updating an animated sequence to be displayed on the first computer system so as to reflect actions of the computer system. SON Express demonstrate reflecting actions of one computer system on another. It is also widely acceptable in the art for Internet terminals to display actions which are the reflection of actions of corresponding servers. These

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actions often include animated sequences to be displayed on the first computer system so as to reflect actions of the computer system.

The Applicant adds claims 32. The Examiner determines that claim 32 fails to overcome the rejection of the previous office action.

Due to at least the above reasons, the rejection of claims 1 - 32 remains standing.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas Joseph whose telephone number is (703) 305-2277. The examiner can normally be reached on Monday through Friday from 7:30 pm to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca, can be reached on (703) 308-3116. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-6606.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

tjj/11-14-00

RAYMOND J. BAYERL PRIMARY EXAMINER ART UNIT 2173

# ATTACHMENT TO AND MODIFICATION OF NOTICE OF ALLOWABILITY (PTO-37)

(November, 2000)

NO EXTENSIONS OF TIME ARE PERMITTED TO FILE CORRECTED OR FORMAL DRAWINGS, OR A SUBSTITUTE OATH OR DECLARATION, notwithstanding any indication to the contrary in the attached Notice of Allowability (PTO-37).

If the following language appears on the attached Notice of Allowability, the portion lined through below is of no force and effect and is to be ignored<sup>1</sup>:

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Similar language appearing in any attachments to the Notice of Allowability, such as in an Examiner's Amendment/Comment or in a Notice of Draftperson's Patent Drawing Review, PTO-948, is also to be ignored.

<sup>&</sup>lt;sup>1</sup> The language which is crossed out is contrary to amended 37 CFR 1.85(c) and 1.136. See "Changes to Implement the Patent Business Goals", 65 Fed. Reg. 54603, 54629, 54641, 54670, 54674 (September 8, 2000), 1238 Off. Gaz. Pat. Office 77, 99, 110, 135, 139 (September 19, 2000).